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L6 ANSWER 1 OF 1 WPINDEX COPYRIGHT 2007 THE THOMSON CORP on STN
ACCESSION NUMBER: 1998-034012 [04] WPINDEX
DOC. NO. CPI: C1998-011639 [04]
TITLE: Production of block copolymer(s) without branching -
comprises producing first block produced in first
reaction step and second block in second reaction step
DERWENT CLASS: A12; A25
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COUNTRY COUNT: 23

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
DE 19634477	A1	19971211	(199804)*	DE	11[3]	C08F297-00
WO 9746602	A1	19971211	(199804)	EN		C08F297-02
EP 904307	A1	19990331	(199917)	DE		C08F297-02
EP 904307	B1	20000628	(200035)	DE		C08F297-02
DE 59701942	G	20000803	(200040)	DE		C08F297-02
JP 2000514471	W	20001031	(200059)	JA	25	C08G065-28 <-
US 6284847	B1	20010904	(200154)	EN		C08F240-00
DE 19634477	C2	20021017	(200270)	DE		
CA 2257313	C	20060314	(200622)	EN		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
DE 19634477	A1	DE 1996-19634477	19960827
DE 59701942	G	DE 1997-501942	19970530
EP 904307	A1	EP 1997-926973	19970530
EP 904307	B1	EP 1997-926973	19970530
DE 59701942	G	EP 1997-926973	19970530
WO 9746602	A1	WO 1997-DE1118	19970530
EP 904307	A1	WO 1997-DE1118	19970530
EP 904307	B1	WO 1997-DE1118	19970530
DE 59701942	G	WO 1997-DE1118	19970530
JP 2000514471	W	***WO 1997-DE1118	19970530***
US 6284847	B1	WO 1997-DE1118	19970530
JP 2000514471	W	***JP 1998-500098	19970530***
US 6284847	B1	US 1998-194864	19981204
CA 2257313	C	CA 1997-2257313	19970530
CA 2257313	C	WO 1997-DE1118	19970530

FILING DETAILS:

PATENT NO	KIND	PATENT NO
DE 59701942	G	Based on EP 904307 A
EP 904307	A1	Based on WO 9746602 A
EP 904307	B1	Based on WO 9746602 A
DE 59701942	G	Based on WO 9746602 A
JP 2000514471	W	Based on WO 9746602 A
US 6284847	B1	Based on WO 9746602 A
CA 2257313	C	Based on WO 9746602 A

PRIORITY APPLN. INFO: DE 1996-19622614 19960605

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INT. PATENT CLASSIF.:

MAIN: C08F297-02; C08G065-28
IPC RECLASSIF.: B01F0017-00 [I,A]; B01F0017-00 [I,A]; B01F0017-00
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B01F0017-00 [I,C]
IPC ORIGINAL: C08F0297-00 [I,C]
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; C08F0297-02 [I,A]; C08F0008-00 [I,A]; C08F0008-00 [I,C]; C08G0065-
00
[I,C]; C08G0065-28 [I,A]; C08G0081-00 [I,A]; C08G0081-
00
[I,C]; C08G0085-00 [I,A]; C08G0085-00 [I,C]
SECONDARY: C08L071-02

BASIC ABSTRACT:

DE 19634477 A1 UPAB: 20050520

Production of block polymers having at least two blocks

consisting

of different monomers. The first block is produced in a first reaction step and the second block in a second reaction step.

Also claimed are: (a) the AB block copolymers produced; and (b) micellar structure made of the AB block copolymers.

Preferably monomer a forms a block A soluble in non-polar

solvents

and monomer b forms a block B suitable in polar solvents. Monomer a is

a

conjugated diene and monomer b is an epoxide. Polymerisation of block A occurs using lithium organyl as initiator. Polymerisation of block B occurs using a component of an alkali metal initiator except a lithium initiator selected from alkali metal-organyl, -hydride and elementary alkali metal. The lithium initiator in first step is a bifunctional initiator. The 1st step is completed by adding the epoxide and a proton donor. Double bonds in block A are partially hydrogenated, preferably fully hydrogenated. Block A is dissolved in a solvent after adding the proton donor or after hydrogenation, and the solvent distilled off. The solvent is benzene. Distillation is carried out under vacuum between

room

temperature and 120.degree.C

USE - In the production of AB block copolymers consisting of monomer units of conjugated diene and epoxide.

ADVANTAGE - No branching of the product into side chains occurs.

No

by-products are formed.

MANUAL CODE: CPI: A04-B01A; A05-A01A; A10-C02